Using Driver-Based Data to Create an IES Model

Specifically, to create IES's cost functions

- 1. Assign all cost objects to one of IES's six types of cost objects
- 2. Determine cost drivers for cost objects
- 3. Separate fixed costs from variable costs and assign them to appropriate cost objects
- 4. Compute slope of variable portion of cost functions and step costs
 - Slope = \$/driver = activity/driver x resource/driver x \$/resource
 - If set up/change over or maintenance involved, increase slope appropriately
- 5. Add capacity constraints to cost functions as required
 - If set up/change over or maintenance involved, decrease capacity appropriately
- 6. Create model structure

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Using Driver-Based Data in an IES Model

Example: CAM -I's The Closed Loop

- 1. Define cost objects
 - Products = support for a campaign, a campaign
 - Activities = support a campaign, execute a campaign
 - Labor = reps, supervisors, general manager
 - Facility = call center
 - Support = telcom, sundry, lease
- 2. Assign all cost objects to one of IES's six types of cost objects where not obvious
 - Lease = facility
 - Reps, telcon = campaign product
 - Sundry, supervisors, general manager = support product
- 3. Determine cost drivers for cost objects
 - Cost driver = # campaigns for both activities, supervisors and telcon; # minutes/call for reps

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Example: CAM -I's The Closed Loop

- Separate fixed, step and variable costs and assign them to appropriate cost objects
 - Fixed = sundry (\$40k), lease (\$200k), general manager (\$100k)
 - Variable = reps, telcom
 - Step = supervisors (\$0 to 13.5 campaigns, \$120k (13.5 to 27))
- 5. Compute slope of variable portion of cost functions
 - Telcom = \$5k/campaign
 - Reps = activity consumption rate x resource consumption rate x cost/rep = 100k calls/campaign x(10 min/call x 1 hr/60 mins x rep/1500 hours) x \$50k/rep = \$555k/campaign
- 6. Apply capacity constraints

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- # campaigns for reps = 13.5

IES Model Structure: "Closed Loop"

